



MASENO UNIVERSITY
UNIVERSITY EXAMINATIONS 2014/2015

**THIRD YEAR SECOND SEMESTER EXAMINATIONS FOR THE
DEGREE OF BACHELOR OF ARTS IN URBAN & REGIONAL
PLANNING WITH INFORMATION TECHNOLOGY
(CITY CAMPUS)**

PUR 323: GIS APPLICATIONS

Date: 27th March, 2014

Time: 2.00 – 4.00 p.m.

INSTRUCTIONS:

Answer Question ONE and any other TWO questions.



PUR 323: GIS APPLICATIONS

Answer question ONE and any other TWO

Sketch maps and diagrams should be used whenever they serve a purpose

A digital map was constructed to show the rapid population increase in Kisumu

1. a) Explain the data sources used in constructing this map (6 marks)
 - b) Discuss three challenges of using the data in (a) (6 marks)
 - c) Describe the process of geo-referencing a map in ILWIS or Arc View (8 marks)
 - d) Discuss the data structures used in representing this spatial data (4 marks)
 - e) Explain two challenges in using the data structures (6 marks)
2. Discuss the influence of data availability on the final outputs in GIS application (10 marks).
3. a) Illustrate the representation of information on the map (12 marks)
 - b) Describe the scales used in representing features on maps (6 marks)
4. Analyze the use of digital maps in developing countries (20 marks)
5. Explain the challenges in using data from different sources in GIS (20 marks)
6. Analyze quantitative and qualitative mapping of point data (20 marks)